

# GIORGIA TOSONI

## DETAILS

### ADDRESS

Amsterdam,  
The Netherlands

### EMAIL

g.tosoni@nin.knaw.nl

## LINKS



[Twitter](#)



[Linkedin](#)

## EXPERTISE & FOCUS

Alzheimer's Disease, Adult Neurogenesis, non-coding RNA, scRNA-sequencing, Molecular Biology.

## SOFTWARE

Rstudio, Python, Linux OS, Fiji (ImageJ), GraphPad.

## LANGUAGES

Italian  
(Native)



English



Spanish



Dutch



## RESEARCH EXPERIENCE

### PhD candidate, Netherlands Institute for Neuroscience

Amsterdam (NL)

Jul 2020 – Present

Cellular and molecular mapping of adult neurogenesis in Alzheimer's disease.

Principal Investigator: Evgenia Salta

### Post-graduation internship, Tel Aviv University

Tel Aviv (IL)

Jan 2020 – Apr 2020

Identification of cellular and molecular mechanisms regulating firing rate set point in hippocampal networks.

Principal Investigator: Inna Slutsky

### Post-graduation internship, Karolinska Institutet

Stockholm (SE)

Oct 2019 – Dec 2019

Investigation of the impact of maternal microbiota perturbation on neuronal development and behavior.

Principal Investigator: Rochellys Diaz Heijtz

### Master thesis internship, Karolinska Institutet

Stockholm (SE)

Feb 2019 – Oct 2019

Investigation of the impact of maternal microbiota perturbation on neuronal development and behavior.

Principal Investigator: Rochellys Diaz Heijtz

### Bachelor thesis internship, Universidad CEU San Pablo

Madrid (ES)

Jan 2017 – Jul 2017

Characterization of the role and the targets of pleiotrophin in neurotoxicity.

Principal Investigators: Carmen Perez-Garcia and Gonzalo Herradón

## EDUCATION

### Master's degree of Cellular and Molecular Biotechnology - Neurobiology curriculum, University of Trento

Trento (IT)

Sep 2017 – Oct 2019

Final score: 110 with honors/110.

### Erasmus+, Umeå University

Umeå (SE)

Jan 2018 – Jun 2018

### Bachelor's degree of Biomolecular Sciences and Technology, University of Trento

Trento (IT)

Sep 2014 – Sep 2017

Final score: 110 with honors/110.

### Erasmus+, Universidad CEU San Pablo

Madrid(ES)

Jan 2017 – Jun 2017

## SCHOLARSHIPS & GRANTS

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### **Boehringer Ingelheim Fonds Travel Grant**

Aug 2021

**Alzheimer Nederland** - Single-cell molecular mapping of adult neurogenesis in Alzheimer's disease (AD)

Apr 2020 – Apr 2024

**NWO Compute Grant; EINF-1405**– Cellular & Molecular mapping of adult neurogenesis in Alzheimer's disease

Apr 2020 – Apr 2021

### **Erasmus+ Mundus**

Jan 2020 - Apr 2020

### **Erasmus+ Traineeship**

Feb 2019 - Dec 2019

### **Erasmus + Study**

Jan 2018 - Jun 2018

### **University of Trento Merit Award**

Oct 2017 & Oct 2019

### **Erasmus + Traineeship**

Jan 2017 - Jun 2017

## PUBLICATIONS

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Penning A, **Tosoni G**, Abiega O, Bielefeld P, Gasperini C, De Pietri Tonelli D, Fitzsimons C, Salta E. Adult Neural Stem Cell Regulation by Small Non-Coding RNAs: Physiological Significance and Pathological Implications. *Front. Cell. Neurosci.*, 04 January 2022 *Sec. Cellular Neurophysiology* <https://doi.org/10.3389/fncel.2021.781434>

Walgrave H, Balusu S, Snoeck S, Vanden Eynden E, Craessaerts K, Thrupp N, Wolfs L, Horré K, Fourné Y, Ronisz A, Silajdžić E, Penning A, **Tosoni G**, Callaerts-Vegh Z, D'Hooze R, Thal DR, Zetterberg H, Thuret S, Fiers M, Frigerio CS, De Strooper B, Salta E. Restoring miR-132 expression rescues adult hippocampal neurogenesis and memory deficits in Alzheimer's disease. *Cell Stem Cell*. 2021 Oct 7;28(10):1805-1821.e8. doi: 10.1016/j.stem.2021.05.001. Epub 2021 May 24. PMID: 34033742.

**Tosoni G**, Conti M, Diaz Heijtz R. Bacterial peptidoglycans as novel signaling molecules from microbiota to brain. *Curr Opin Pharmacol*. 2019 Oct;48:107-113. doi: 10.1016/j.coph.2019.08.003. Epub 2019 Sep 23. PMID: 31557694.

## EXTRA-CURRICULAR ACTIVITIES

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### **PhD Representative, Netherlands Institute for Neuroscience (NL)**

Aug 2020 – Present

### **PhD Representative, KNAW (NL)**

Sept 2022 – Present

### **Green Office Member, Netherlands Institute for Neuroscience (NL)**

March 2022 – Present

### **Pint of Science Volunteer (NL)**

March 2021 - Present

### **Board Member, Open Wet Lab (IT)**

Jan 2016 – Jan 2020

The first university association of DIY-biology to be founded in Italy.

### **Science writer, Local journals (IT)**

Jan 2016 – Jan 2018

### **Child Neuropsychiatry Volunteer, Spedali Civili Brescia (IT)**

Sep 2012 – Sep 2013

## CERTIFICATES

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### **Felasa, Function B**

Laboratory Animal Science Course, Utrecht University (NL)